Hydrological Memorandum No. 44

Maps of average monthly rainfall over the British Isles for 1941-70

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Other maps of average rainfall related to 1941–70 available from the Meteorological Office

1. Average Annual Rainfall in Millimetres

(a) *Scale 1:625 000* (1 inch = 10 miles)

North Britain: England north of a line Seascale (Cumbria) to Ravenscar (Yorkshire) and Scotland including the Hebrides, with an inset showing Shetland and Orkney Isles, etc. Map size: 80 cm × 100 cm.

South Britain: England south of a line Seascale (Cumbria) to Ravenscar (Yorkshire), with Wales and with an inset showing the Channel Islands. Map size: 80 cm × 100 cm.

North of Ireland: Northern Ireland including adjacent counties in the Irish Republic. Map size: 30 cm × 44 cm.

(b) *Scale 1:2 000 000*

British Isles (including data over the Irish Republic): Simplified isohyets. Map size: 50 cm × 72 cm.

2. Average Rainfall

(a) *In millimetres over summer half-year (April–September inclusive):*

British Isles (including data over the Irish Republic): Map size: 50 cm × 72 cm.

(b) *Annual duration in hours*

Data over United Kingdom only on a map of the British Isles. Map size: 50 cm × 72 cm.

GENERAL DESCRIPTION OF MAPS

Maps 1(a), 1(b) and 2(a) show rainfall by means of black isohyets overprinted on a coloured topographical base-map showing National Grid and principal rivers. Maps 1(a) additionally have place names and roads. Where isohyets are very close together some are omitted for clarity and where they are far apart some intermediate isohyets have been included as pecked lines.

Map 2(b) shows durations as violet-coloured isopleths on a black and white base-map of the coastline with water authority and hydrometric area boundaries; the National Grid is shown in blue.

Hydrological Memorandum No. 44

Maps of average monthly rainfall over the British Isles for 1941-70

by K.E. Woodley

INTRODUCTION

This booklet contains two sets of maps of average monthly rainfall related to the 30-year period 1941–70:

1. Rainfall in millimetres for each of the twelve months, January to December.
2. Rainfall for each of the twelve months, January to December, expressed as the percentage of the average annual rainfall.

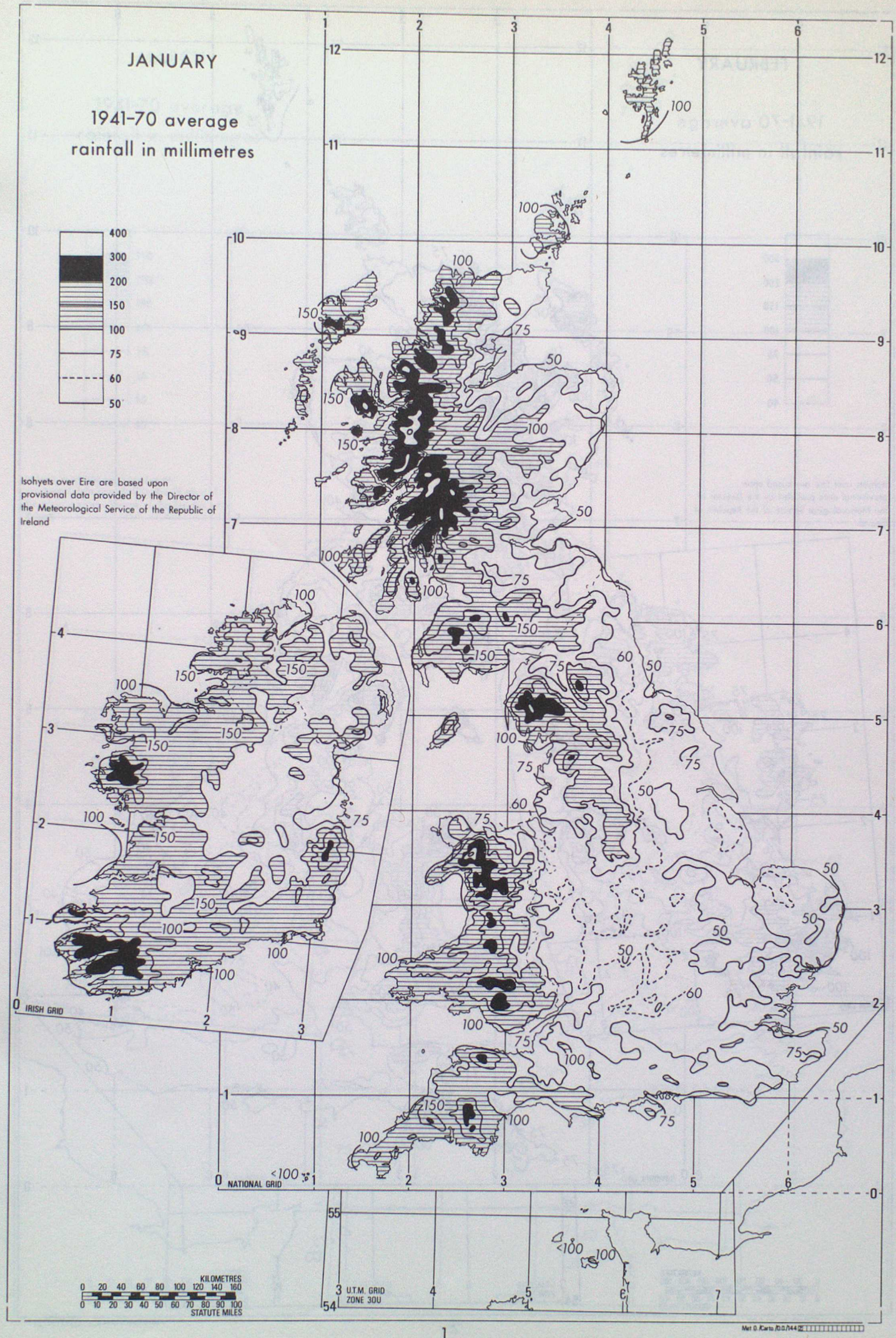
   Additionally, in this set, a map is included showing the rainfall over the hydrometeorological summer half-year, April to September inclusive, also expressed as the percentage of the average annual rainfall.

In view of the scale of reproduction of these maps, the data have necessarily had to be simplified. Isopleths have been smoothed, and very small areas encircled by isopleths have either been omitted if widely separated, or merged into a single larger area if very close together.

The mapped data over the Irish Republic are based upon information provided by the Meteorological Service of the Irish Republic.

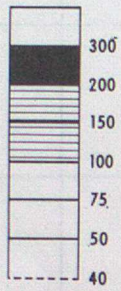
Met O 8 (Hydrometeorological Services)

December 1980


JANUARY
1941–70 average rainfall in millimetres
400
300
200
150
100
75
60
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES

FEBRUARY

1941-70 average rainfall in millimetres



Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland

IRISH GRID

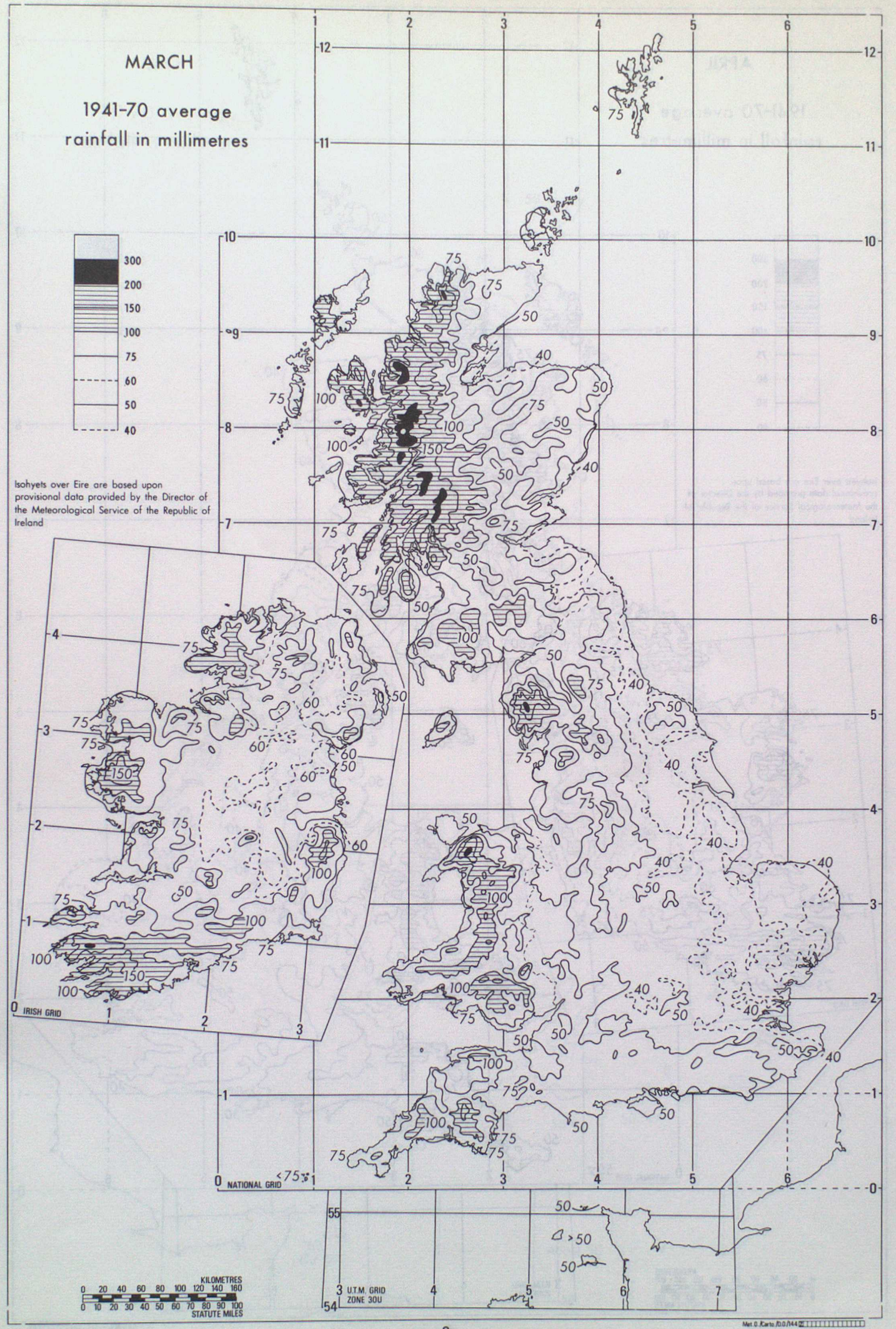
NATIONAL GRID

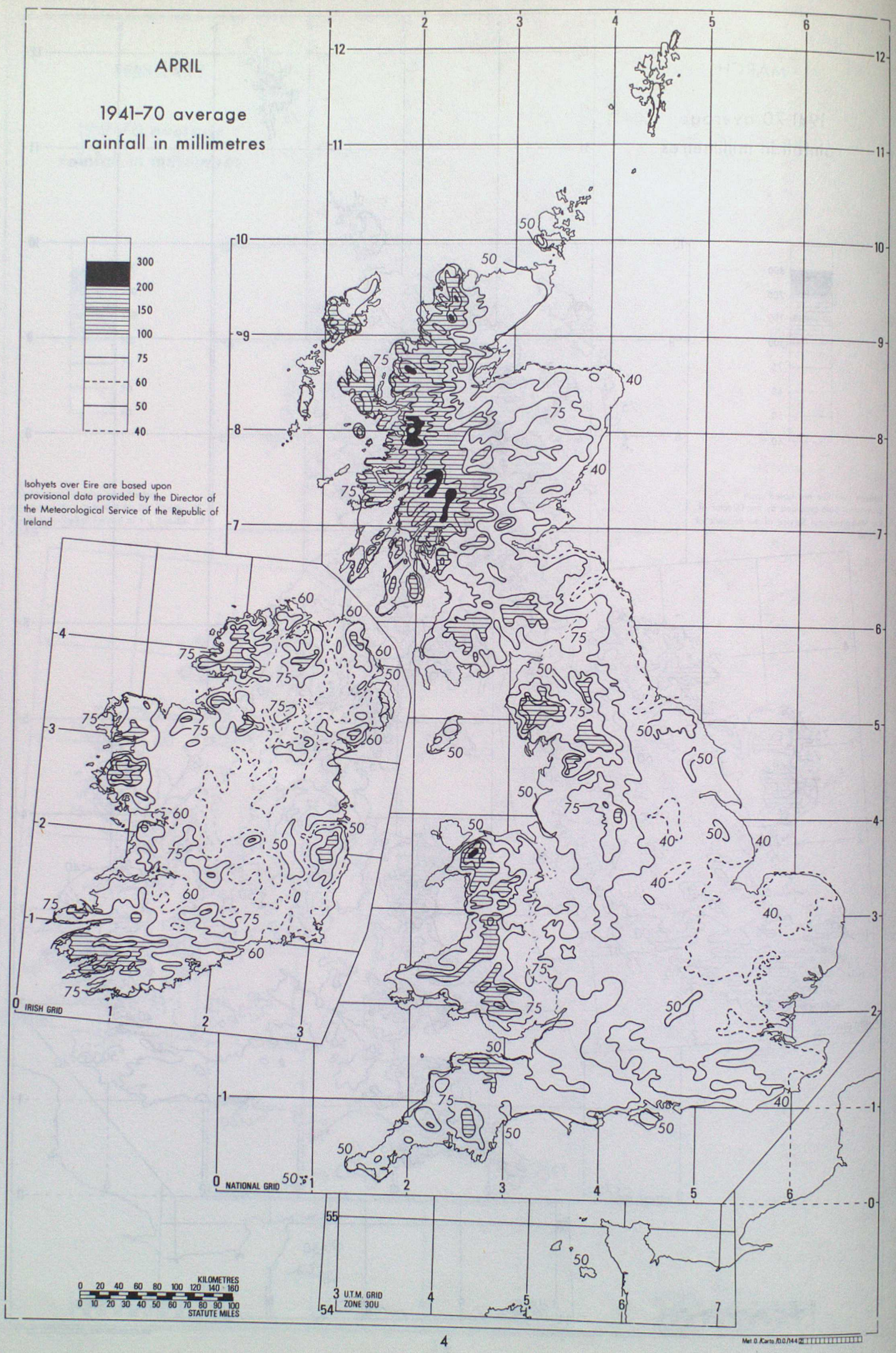
U.T.M. GRID ZONE 30U

KILOMETRES 0 20 40 60 80 100 120 140 160

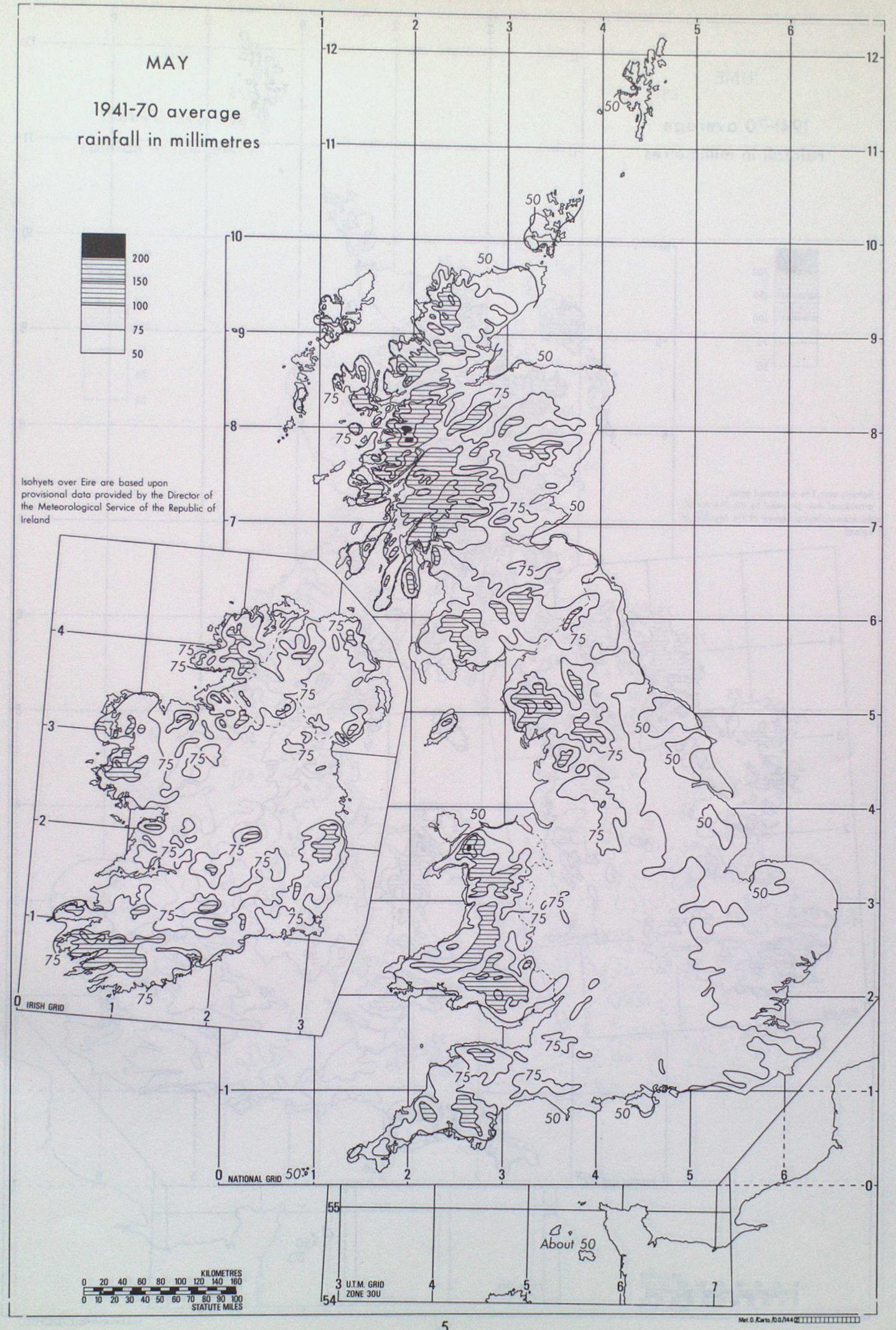
STATUTE MILES 0 10 20 30 40 50 60 70 80 90 100

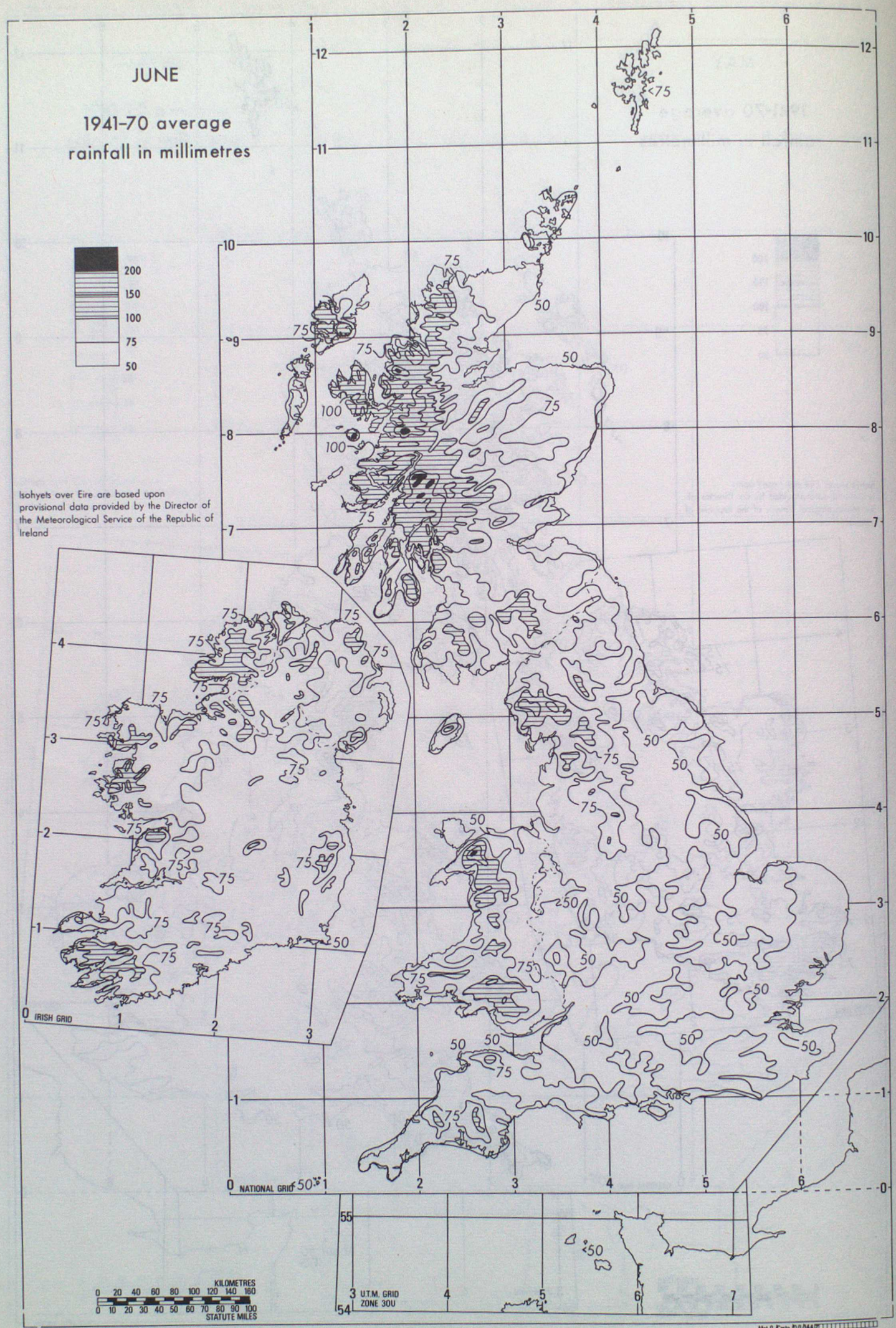
Met O /Carto /D.O./144

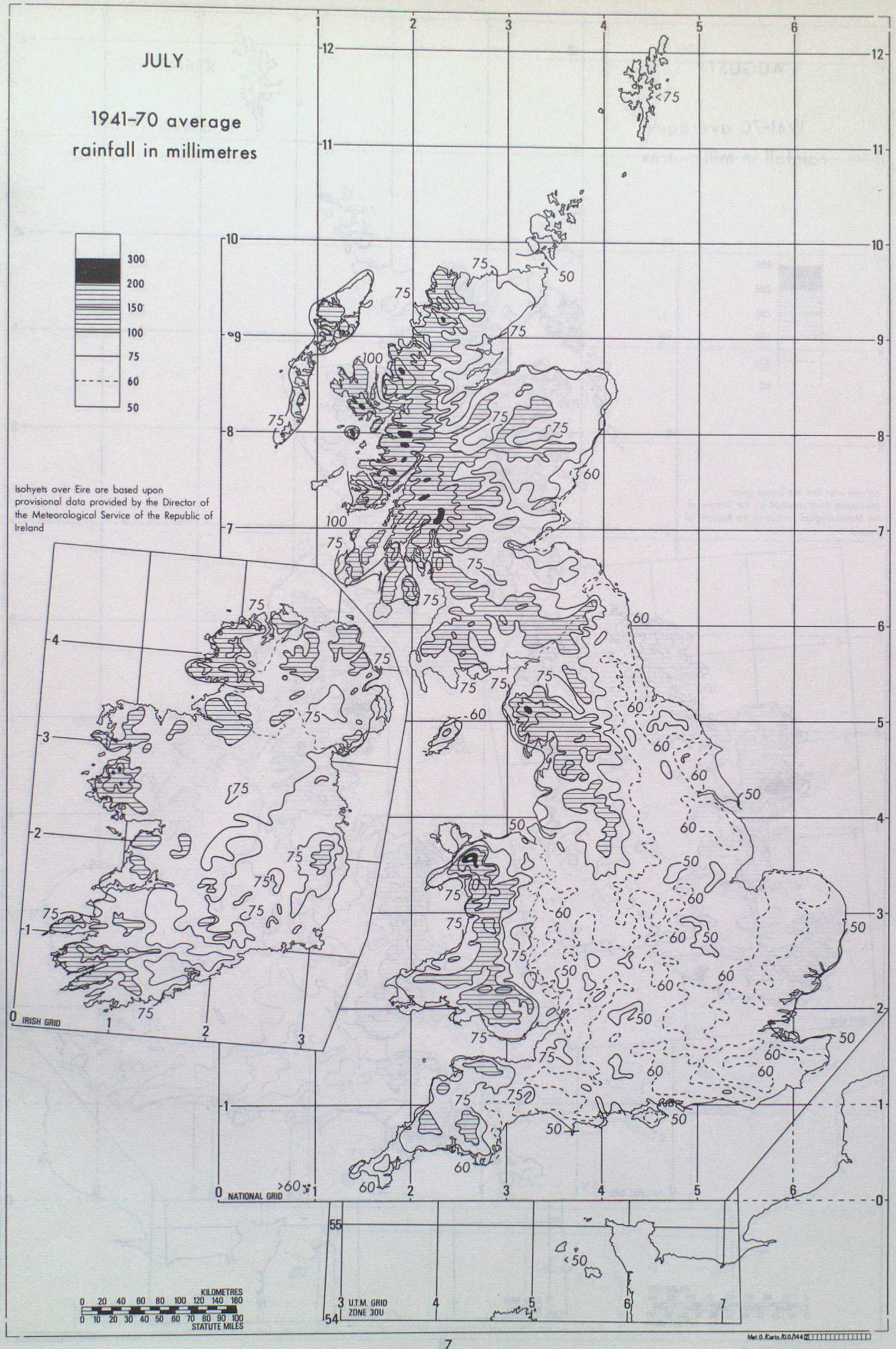

MARCH
1941-70 average
rainfall in millimetres
300
200
150
100
75
60
50
40
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES

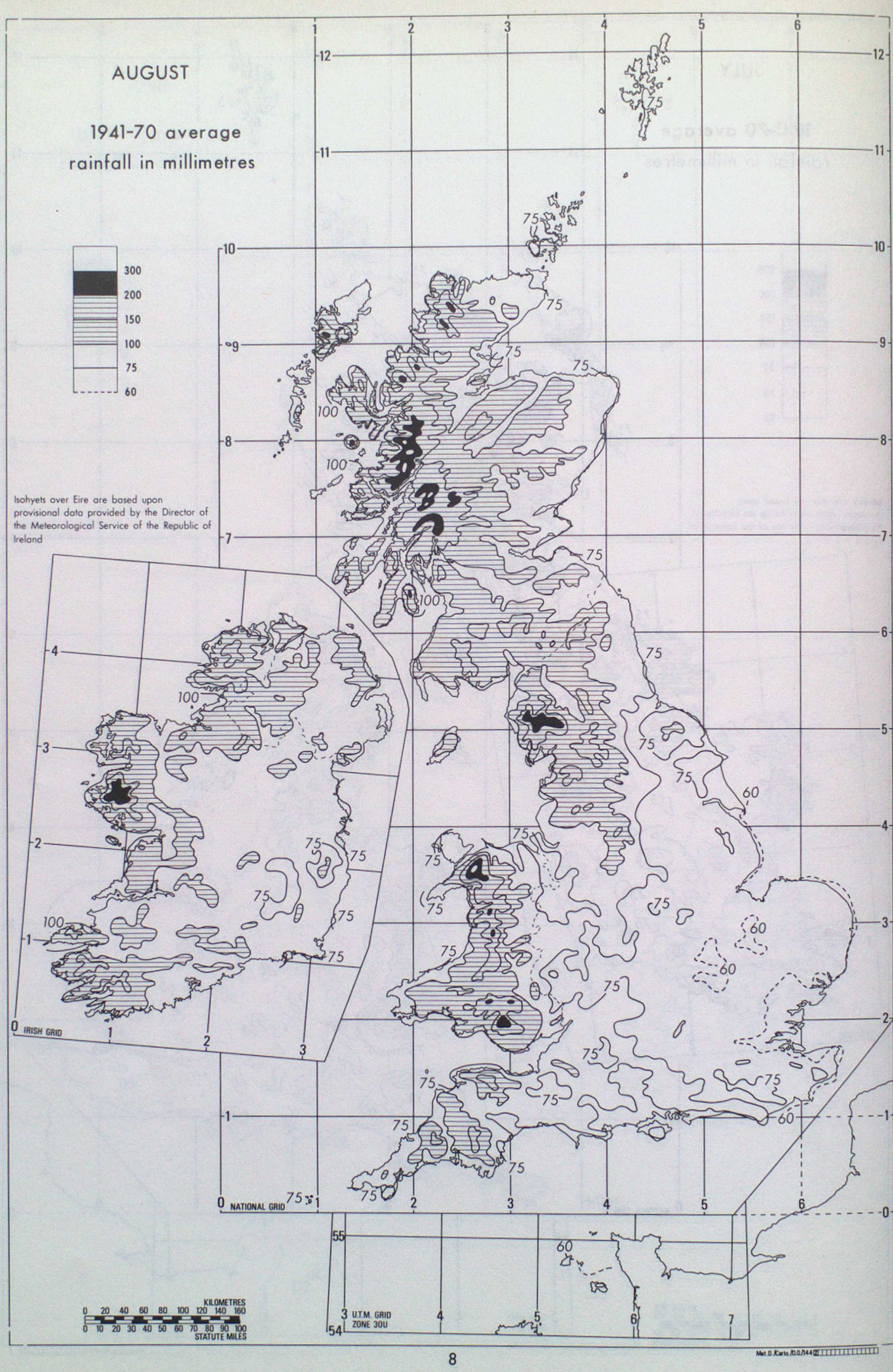


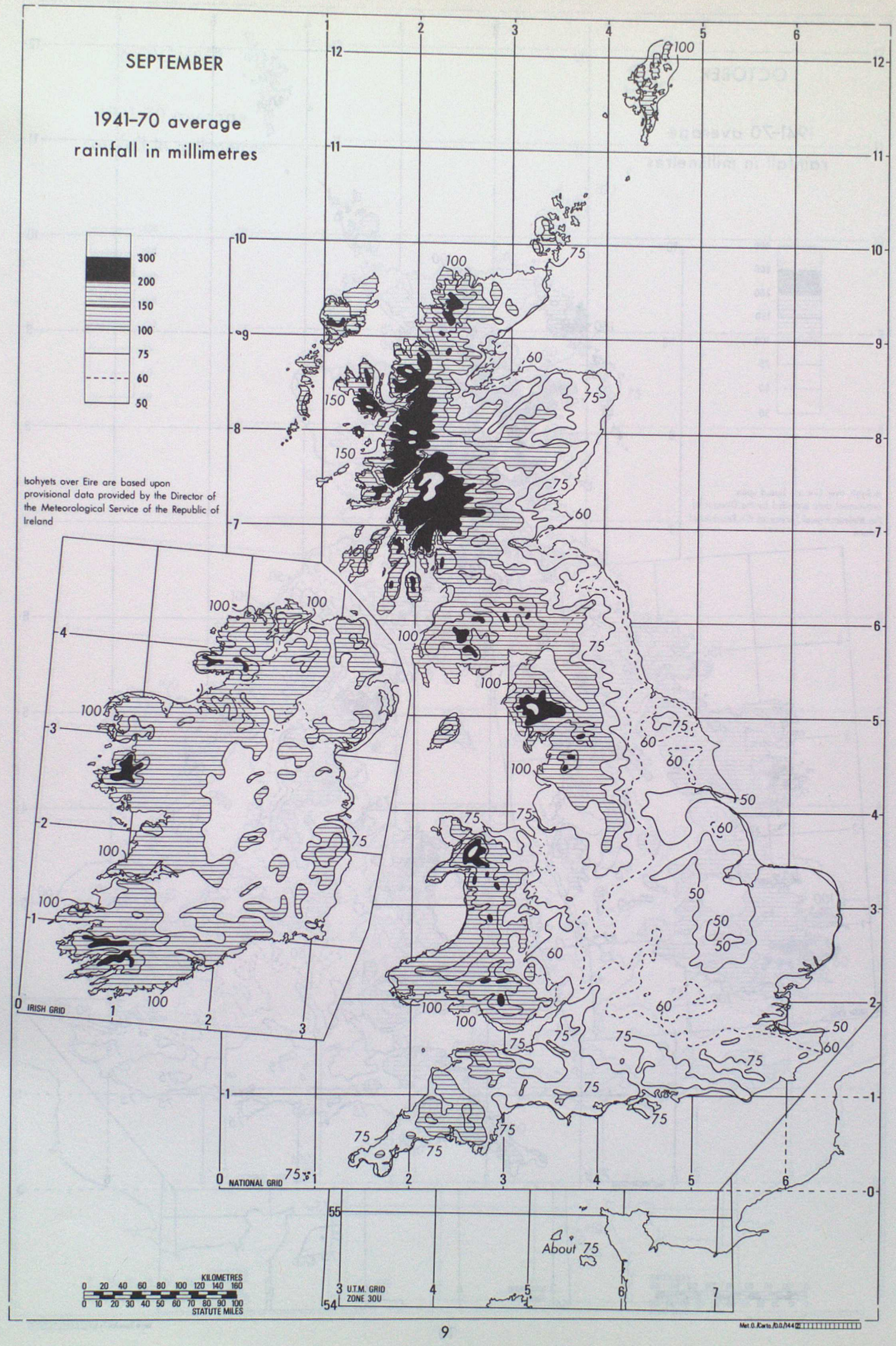
Met O./Carto./D.O./1442

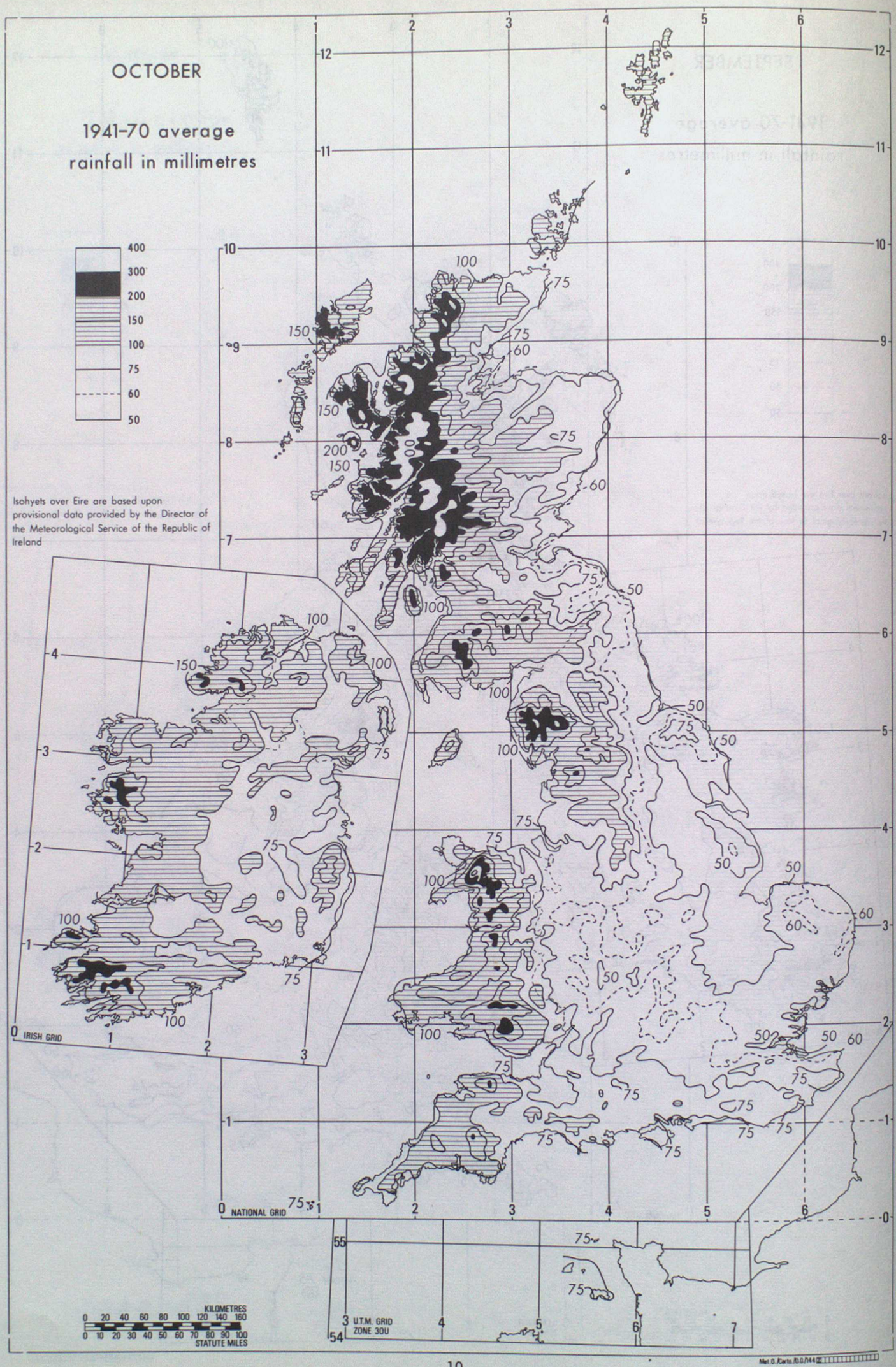

MAY
1941-70 average
rainfall in millimetres
200
150
100
75
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
About 50
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES

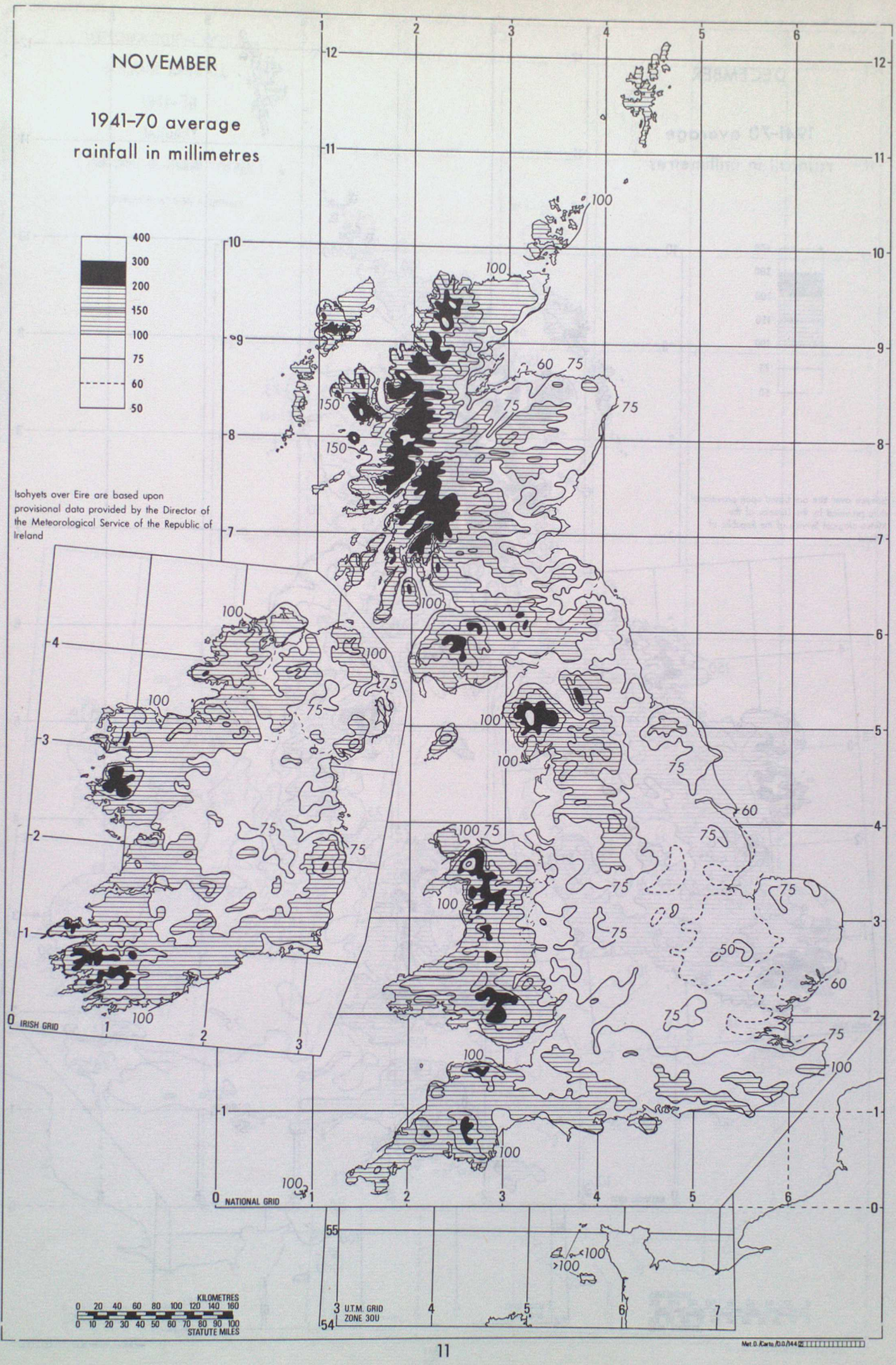

JUNE
1941–70 average
rainfall in millimetres
200
150
100
75
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


JULY
1941–70 average rainfall in millimetres
300
200
150
100
75
60
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


AUGUST
1941-70 average
rainfall in millimetres
300
200
150
100
75
60
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


SEPTEMBER
1941–70 average rainfall in millimetres
300
200
150
100
75
60
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
About 75
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


OCTOBER
1941–70 average
rainfall in millimetres
400
300
200
150
100
75
60
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


NOVEMBER
1941–70 average rainfall in millimetres
400
300
200
150
100
75
60
50
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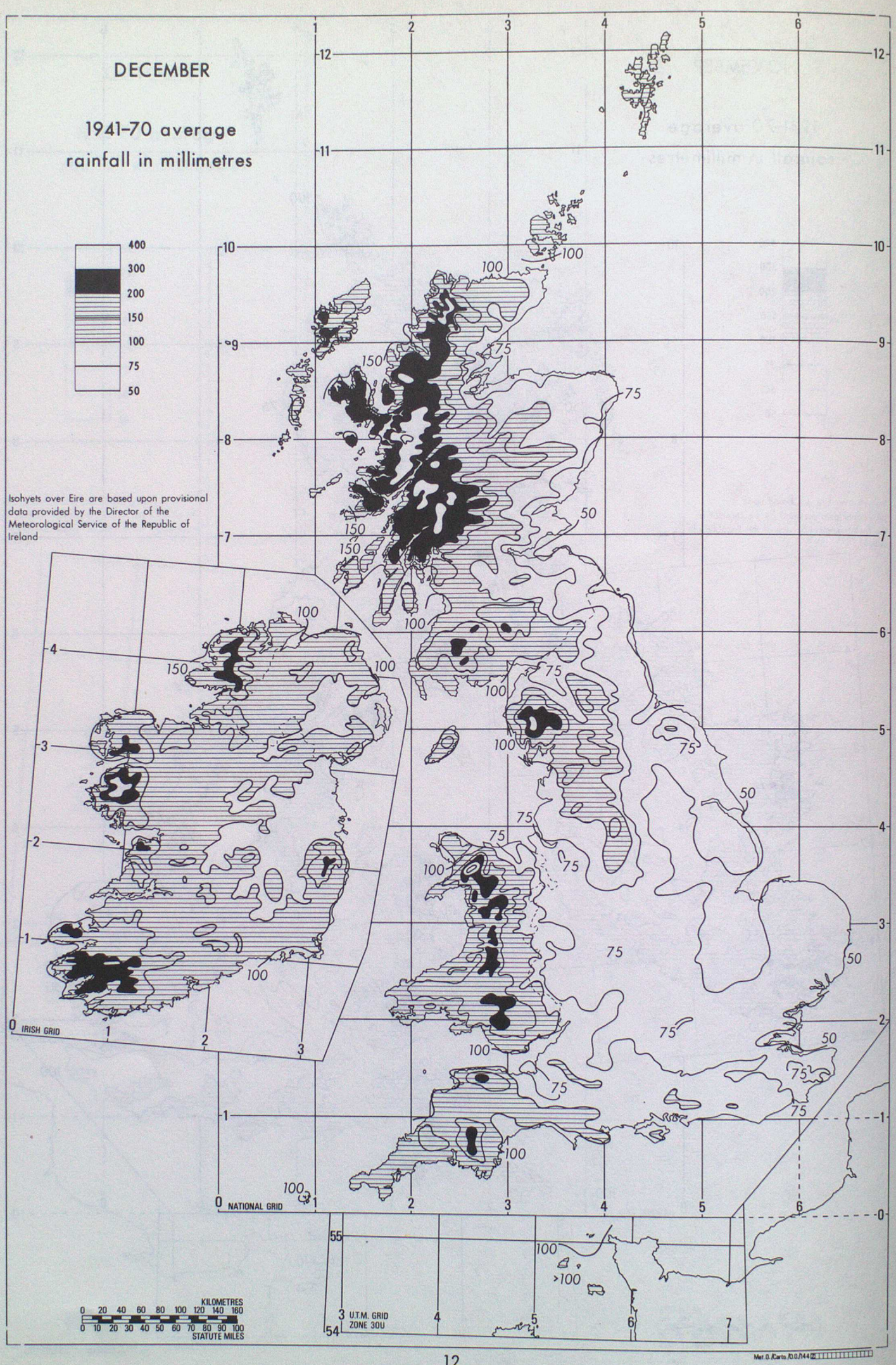
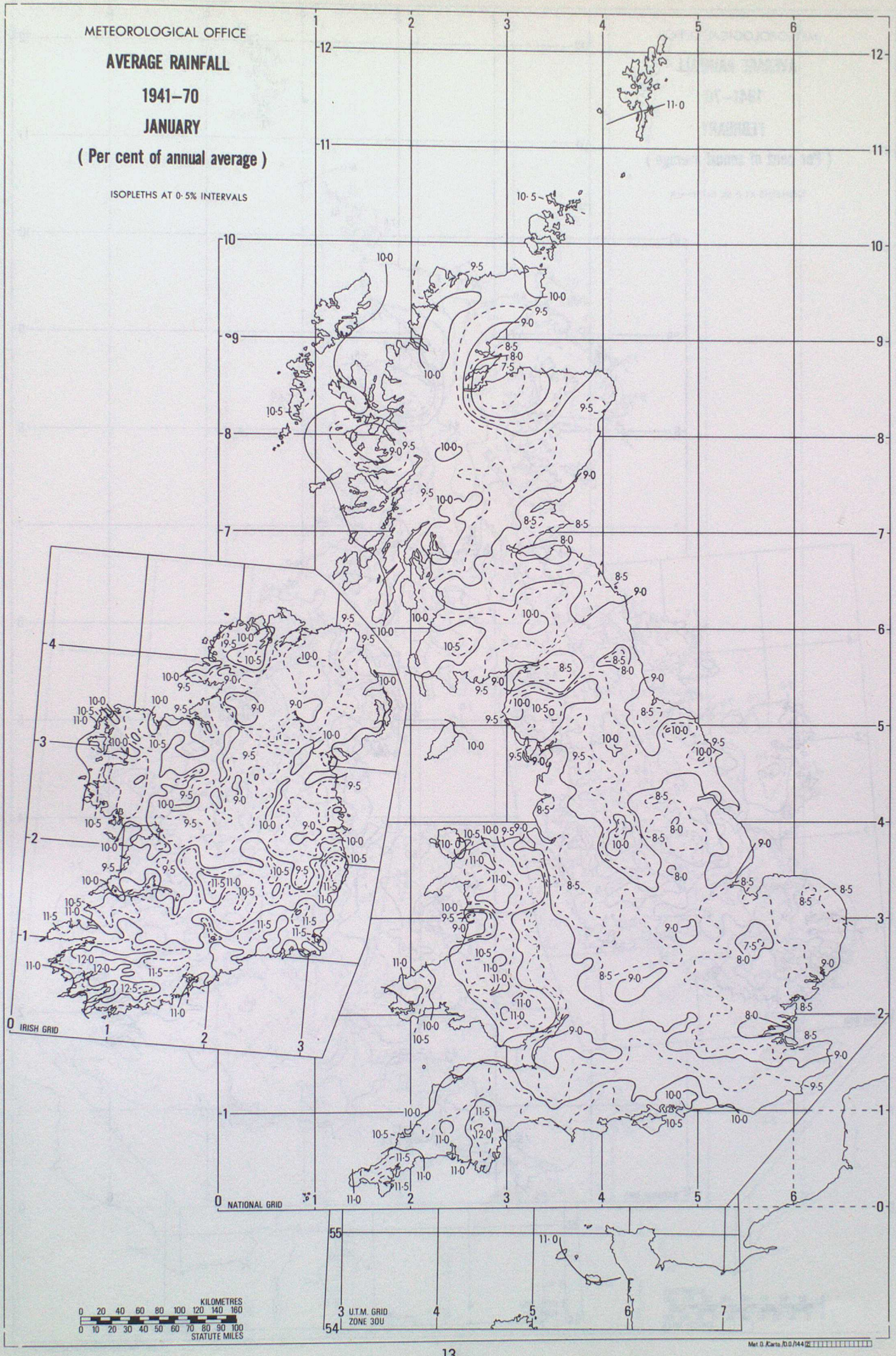
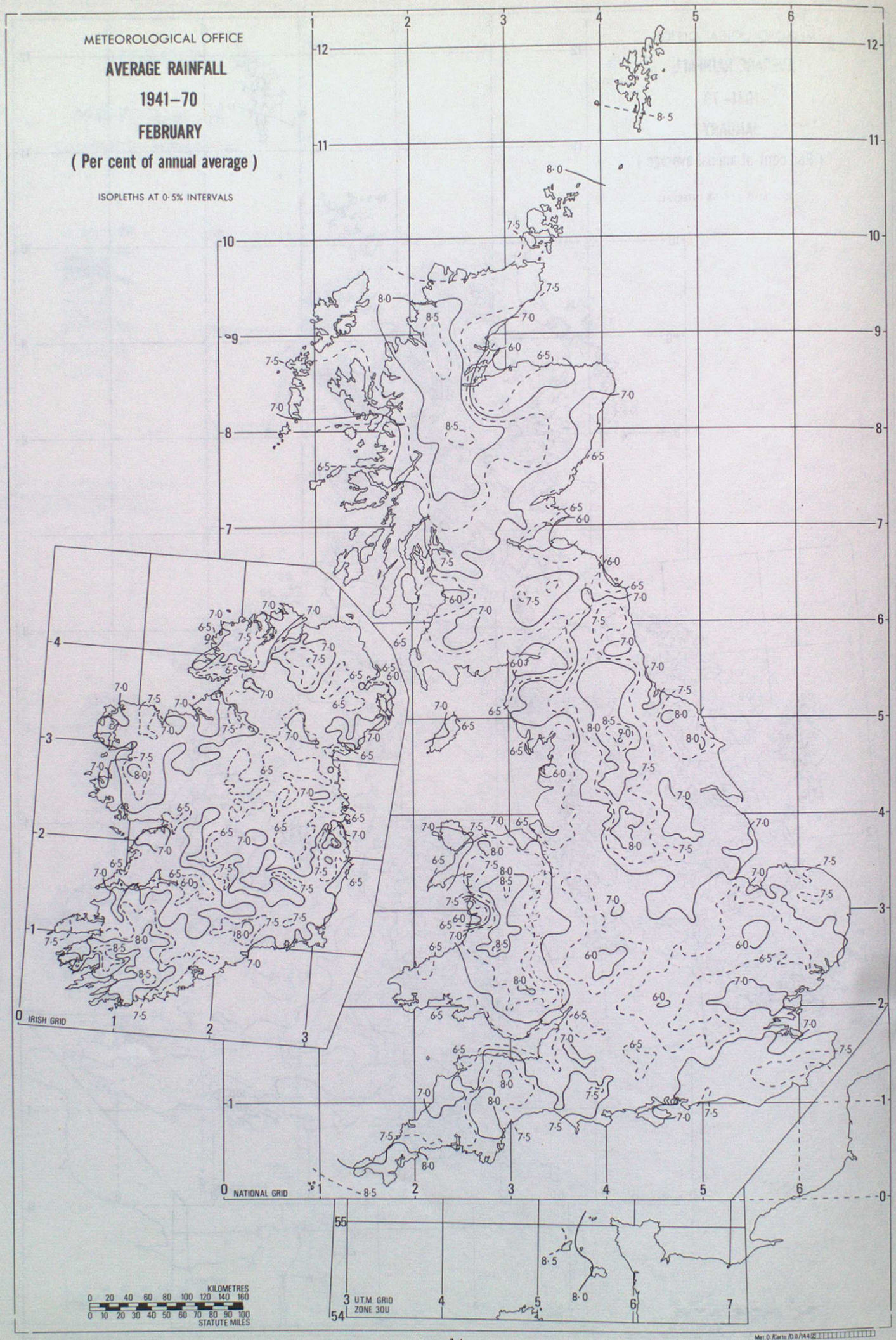
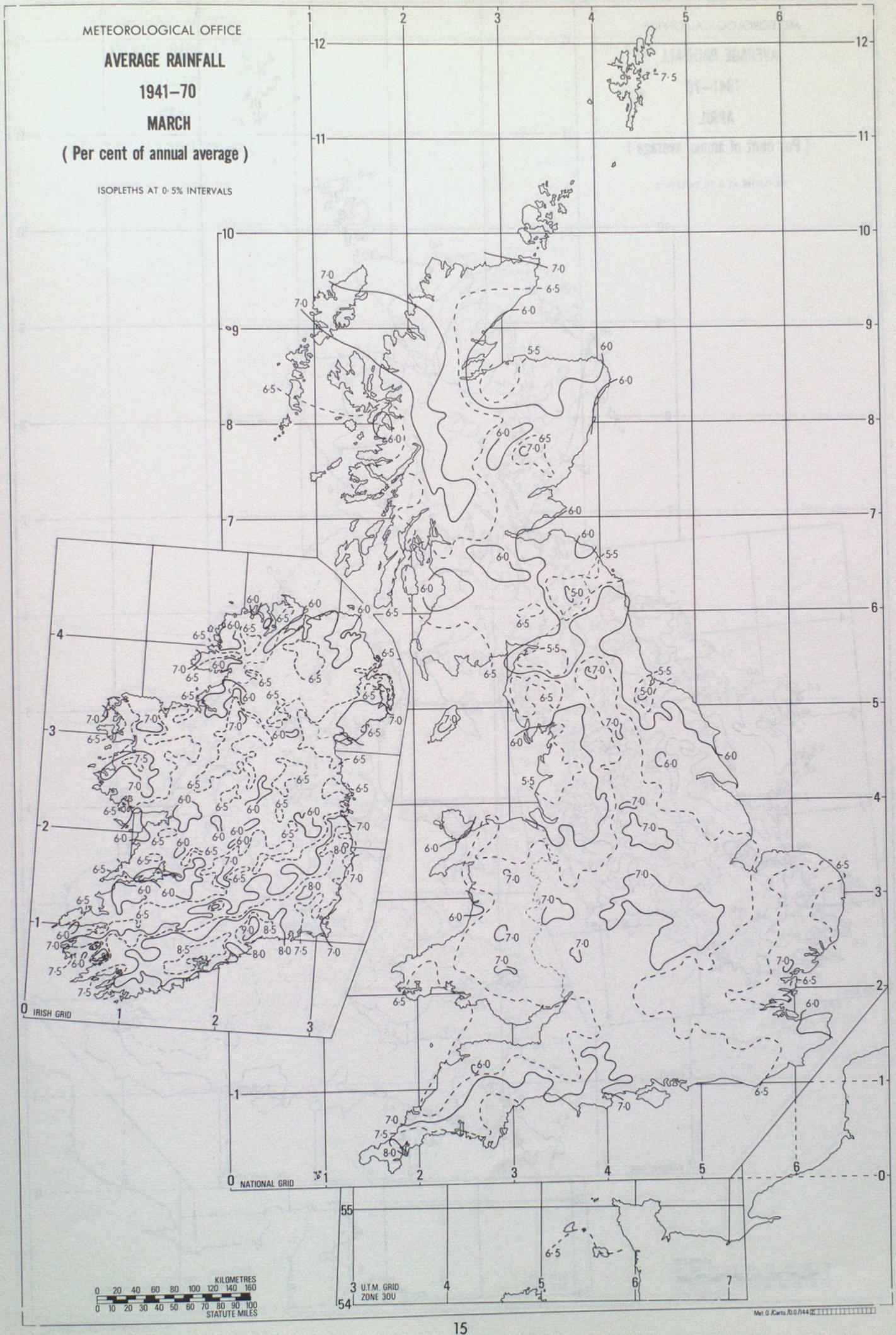
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


DECEMBER
1941–70 average
rainfall in millimetres
400
300
200
150
100
75
50
Isohyets over Eire are based upon provisional data provided by the Director of the Meteorological Service of the Republic of Ireland
IRISH GRID
NATIONAL GRID
U.T.M. GRID
ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
JANUARY
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID
ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
FEBRUARY
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
Met.O./Carto /0.0./144


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
MARCH
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
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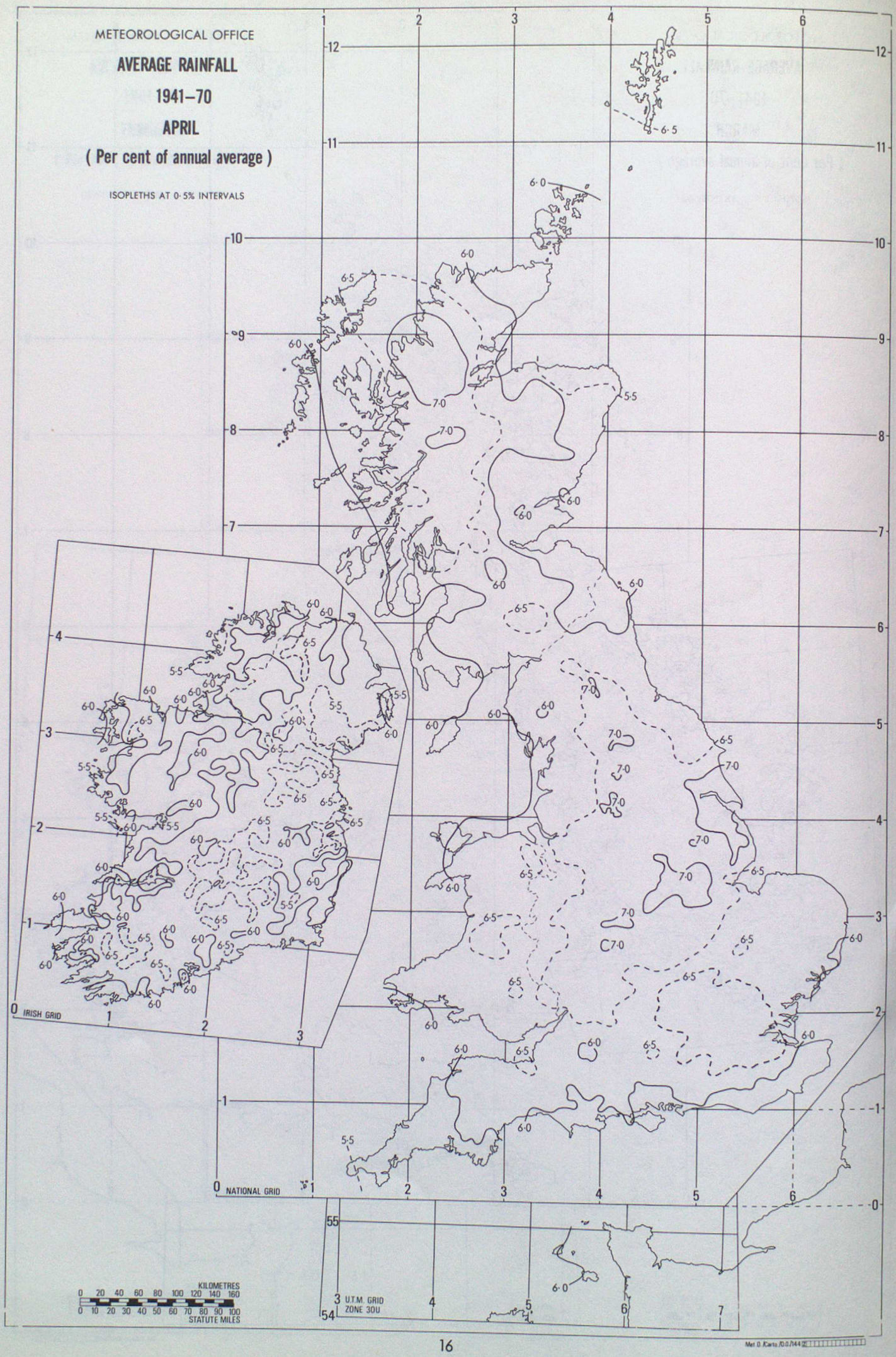
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
APRIL
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
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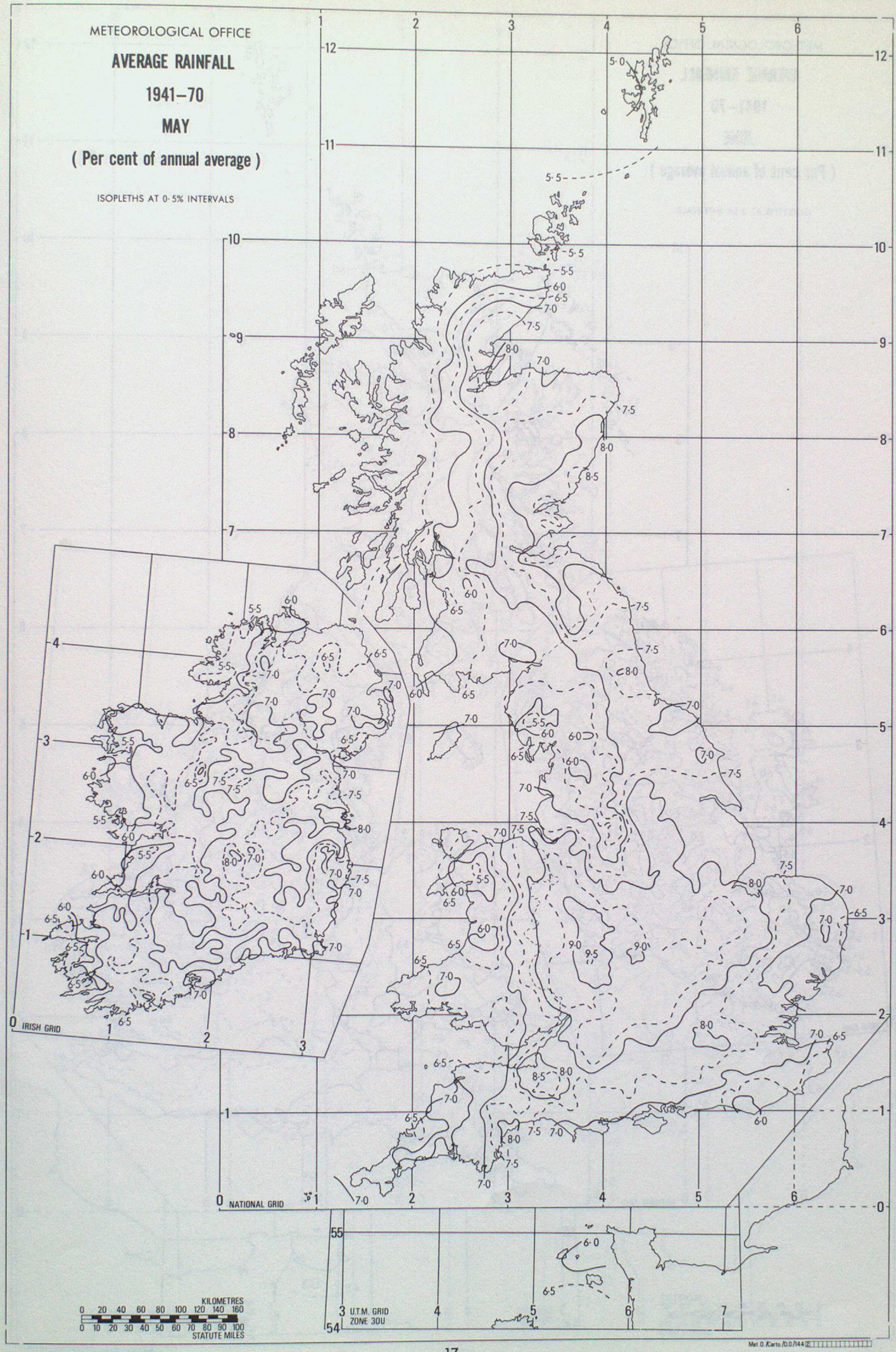
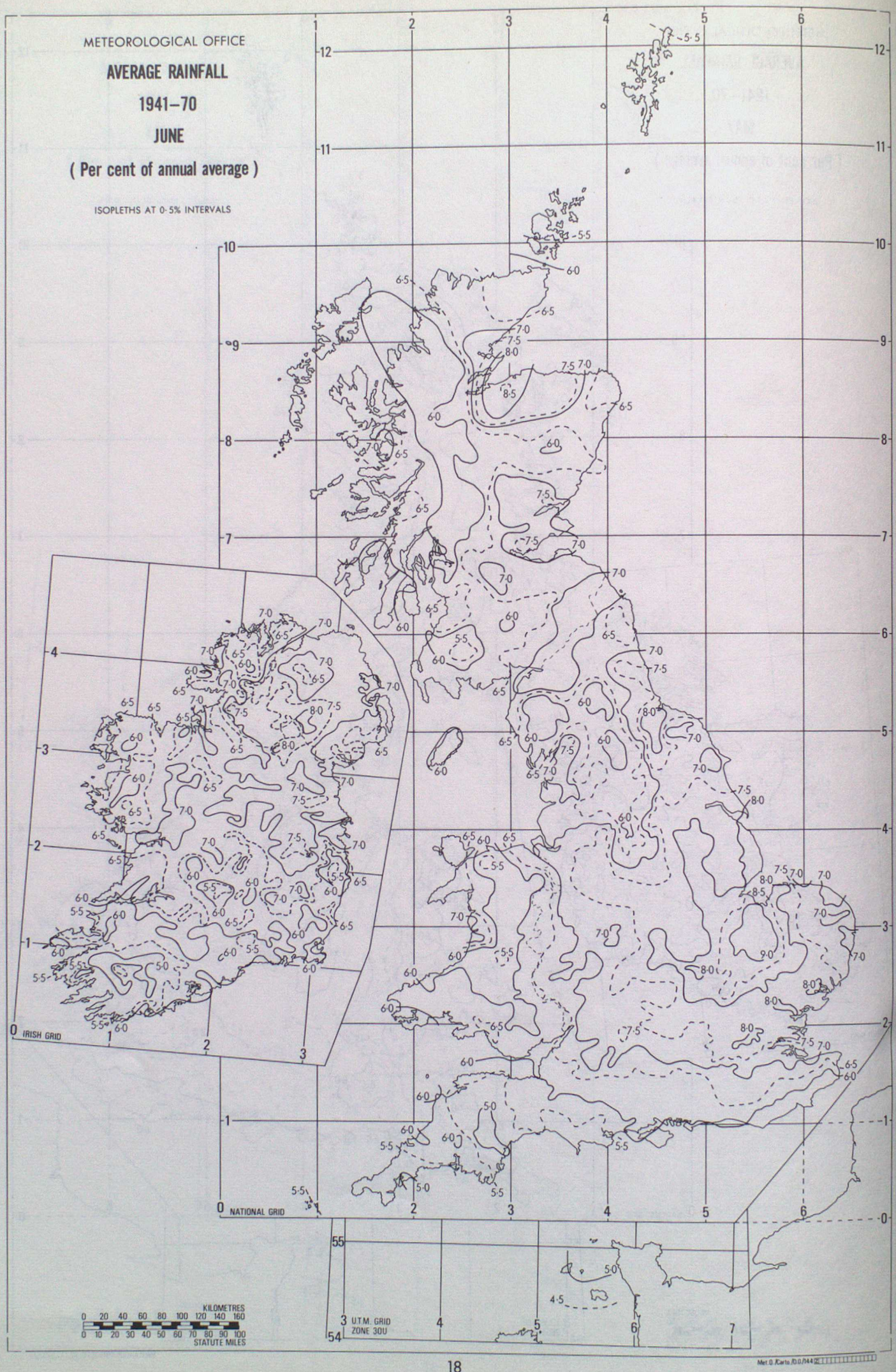
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
MAY
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
JUNE
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID
ZONE 30U
KILOMETRES
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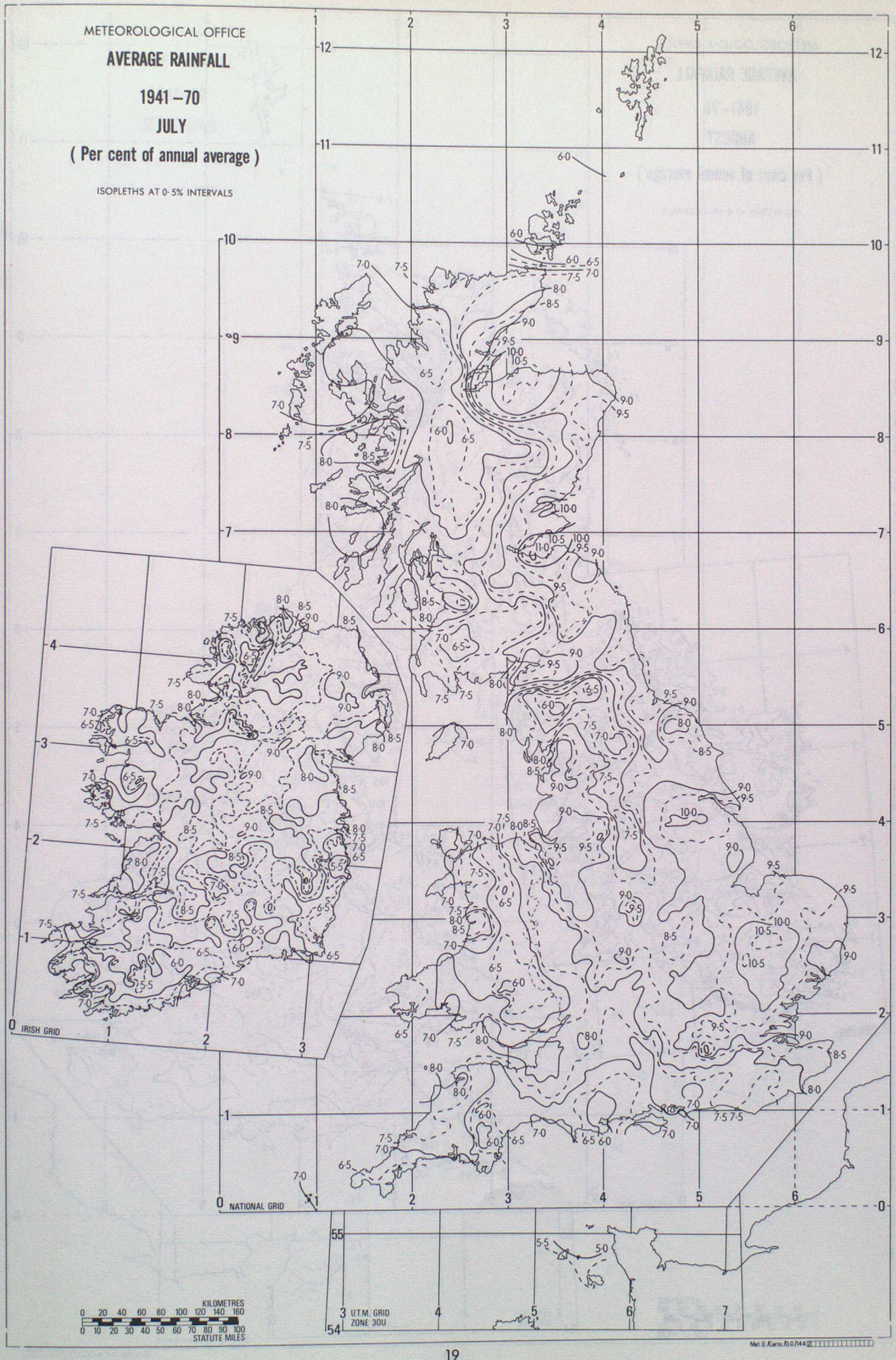
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
JULY
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
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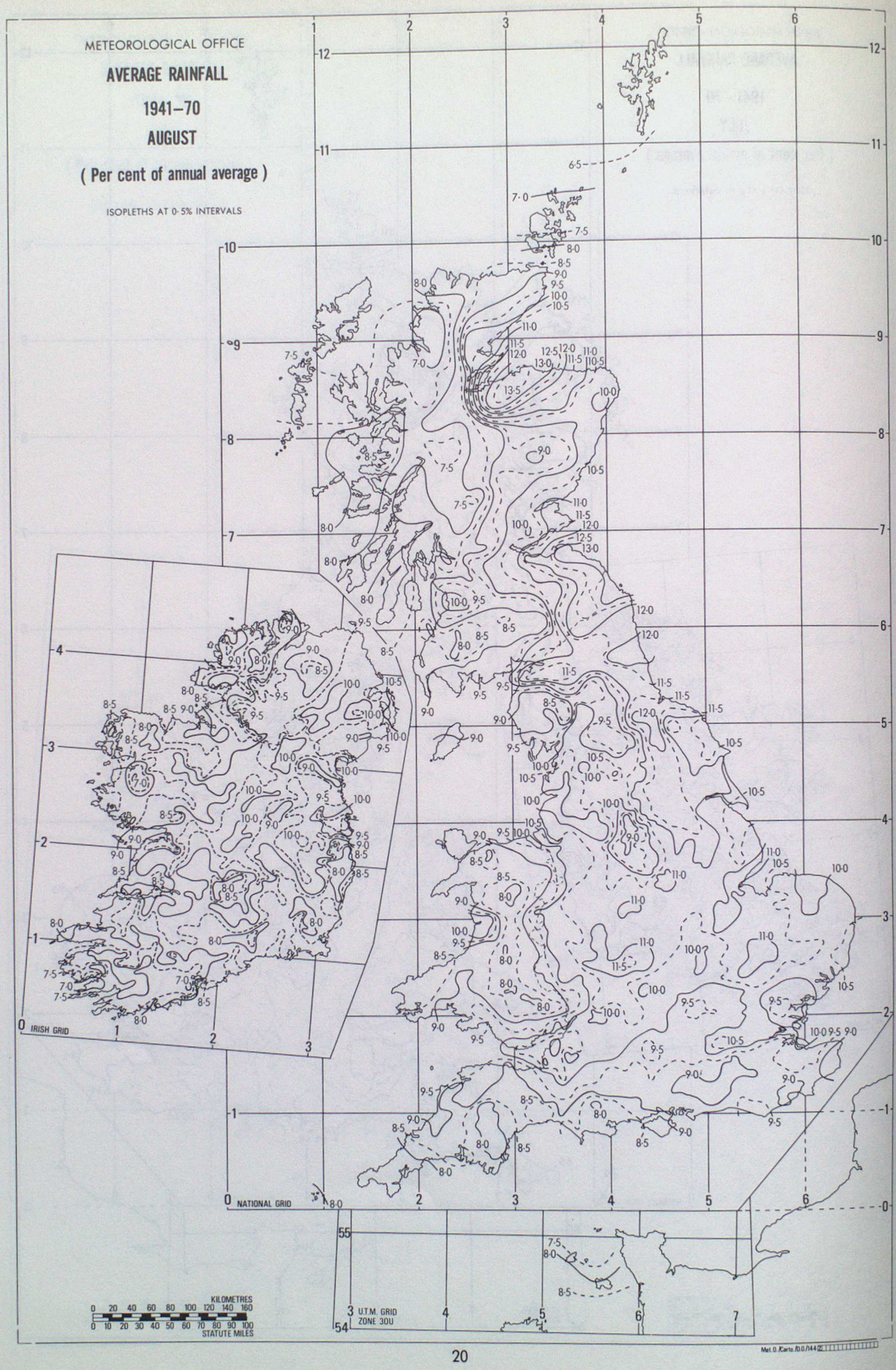
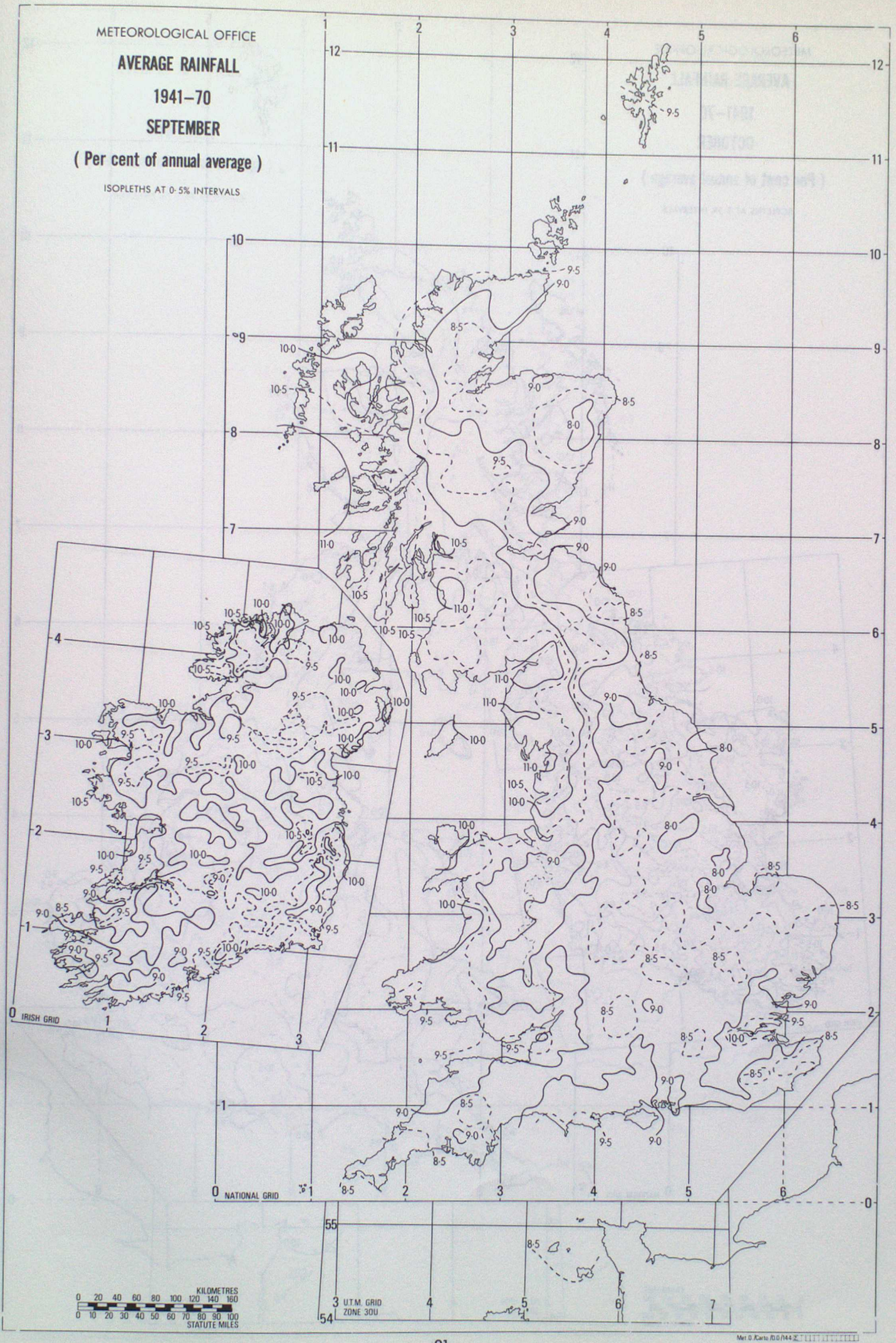
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
AUGUST
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
STATUTE MILES
0 10 20 30 40 50 60 70 80 90 100


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
SEPTEMBER
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
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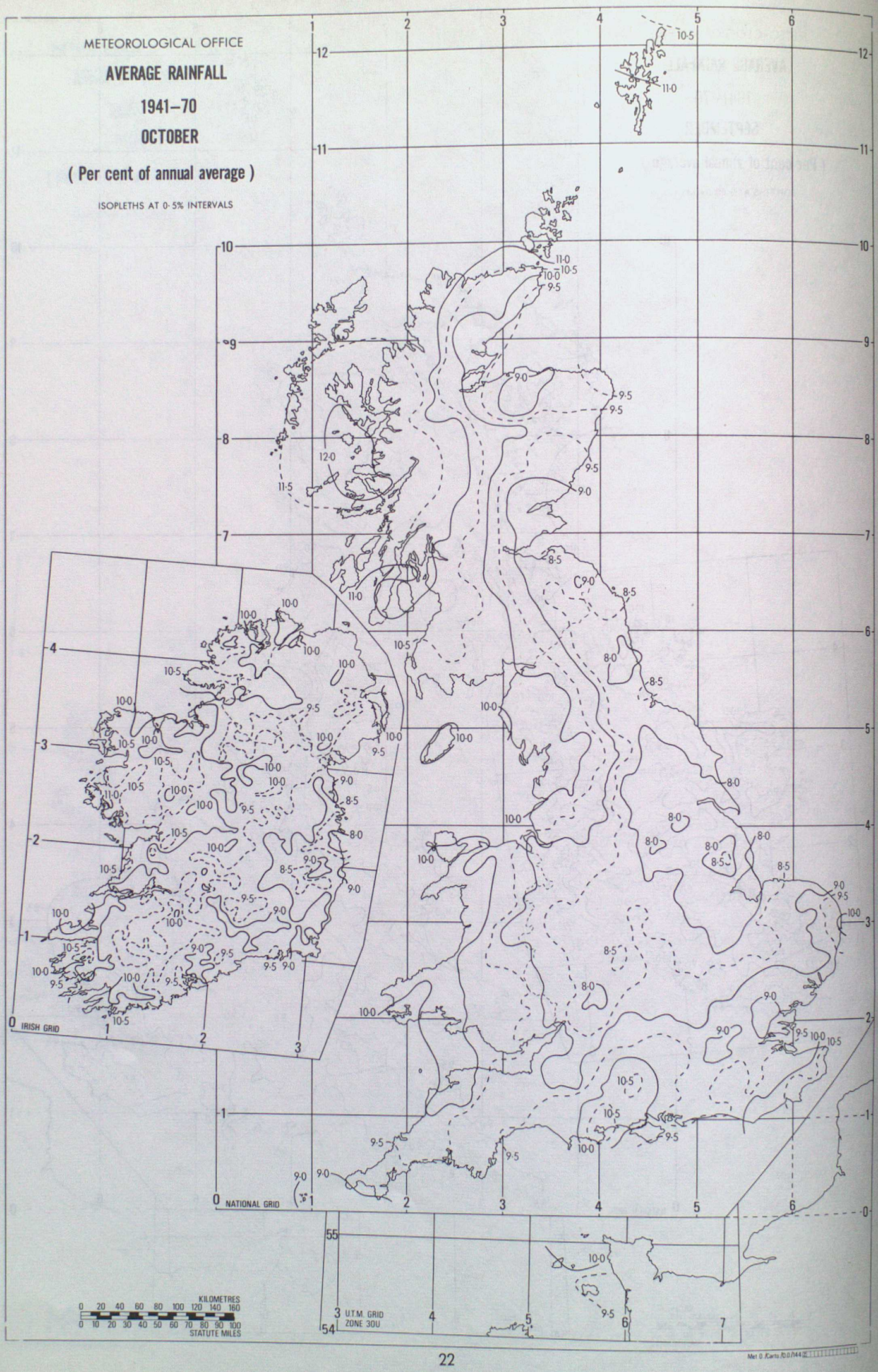
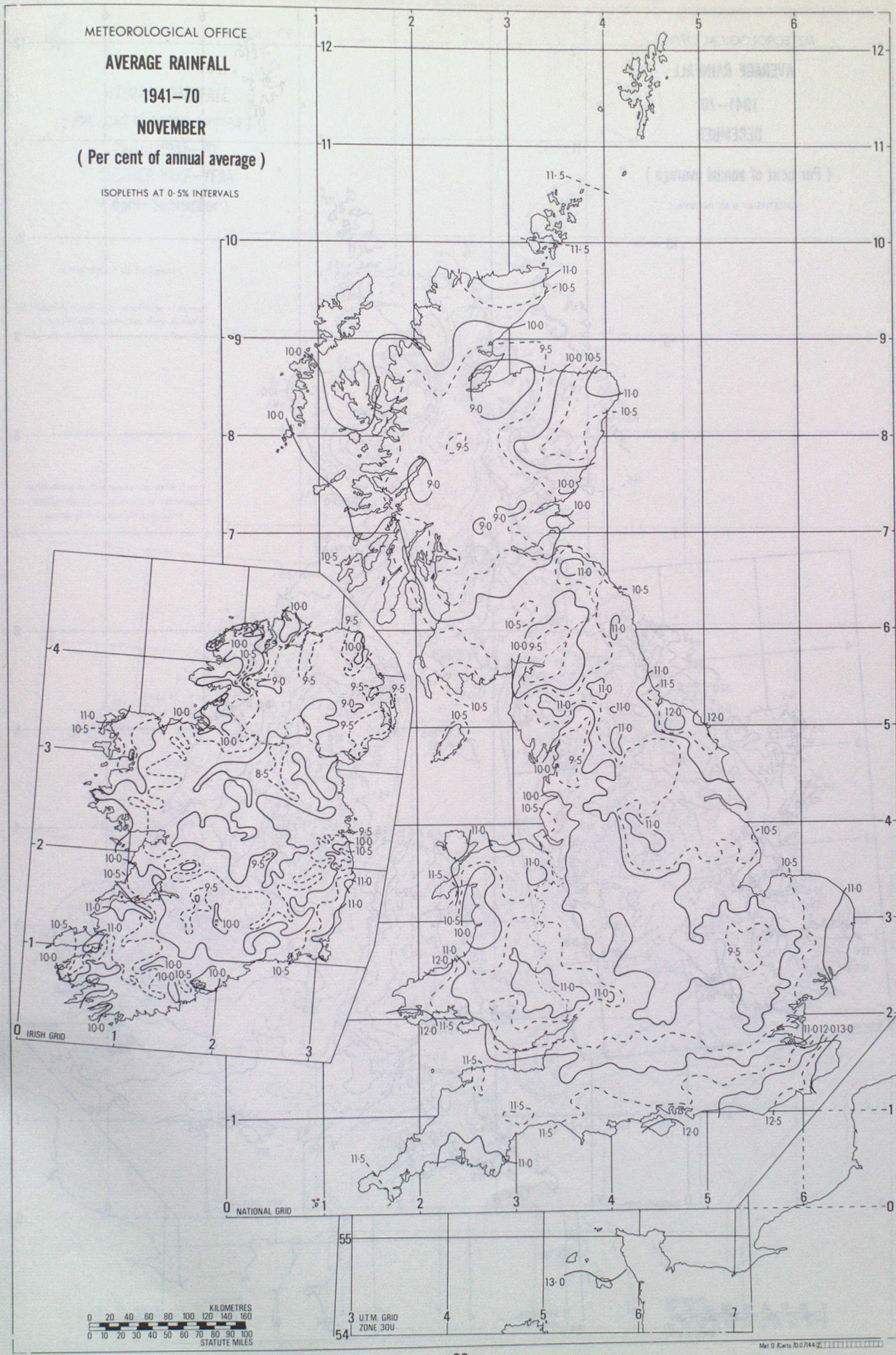
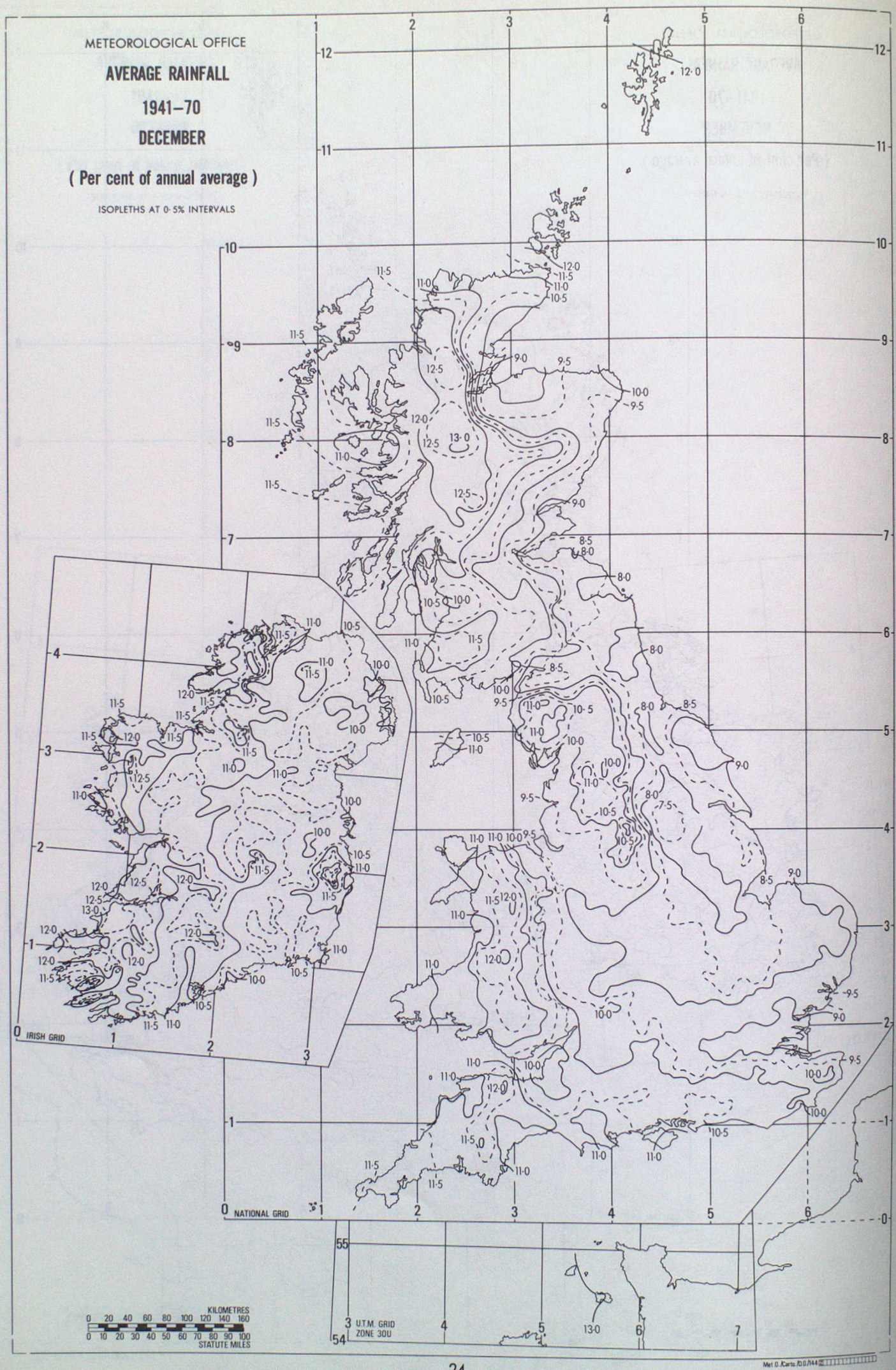
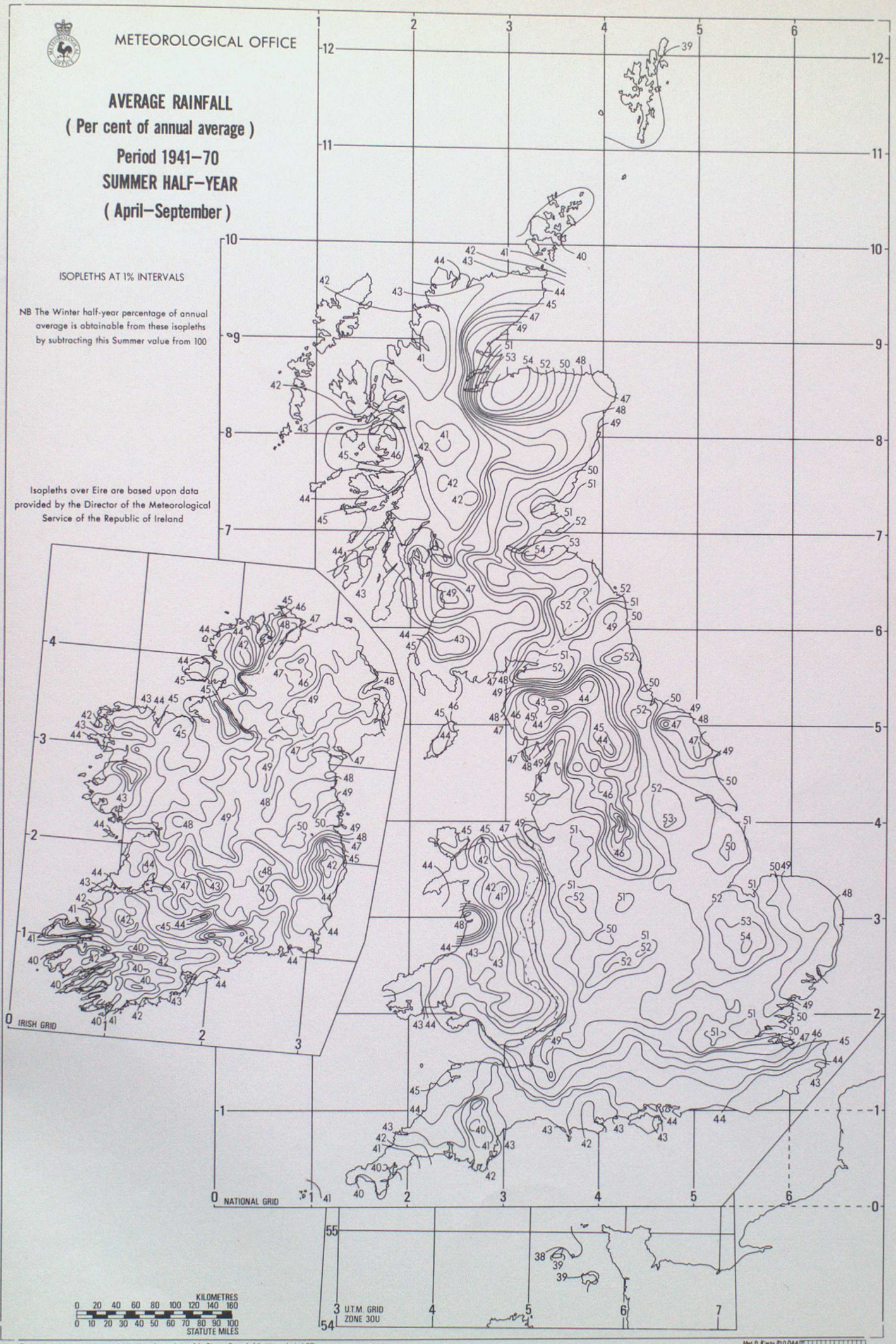
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
OCTOBER
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
NOVEMBER
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
STATUTE MILES


METEOROLOGICAL OFFICE
AVERAGE RAINFALL
1941–70
DECEMBER
(Per cent of annual average)
ISOPLETHS AT 0·5% INTERVALS
IRISH GRID
NATIONAL GRID
U.T.M. GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



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